## CLAIMS

## What is claimed is:

1	1.	A method for integrated audit and configuration comprising the computer-
2		implemented steps of:
3		receiving a request from a user to analyze first configuration information with a
4		second set of configuration information;
5		receiving the first configuration information;
6	•	analyzing one or more parameters of the first configuration information with the
7		second set of configuration information to result in creating and storing
8		comparison information;
9		displaying the comparison information;
10		choosing one or more action mechanisms to provide to the user for each of the one or
11		more parameters based on the comparison information; and
12		enabling the user to perform one or more actions associated with the one or more
13		action mechanisms.
1	2.	The method of Claim 1, where the second set of configuration information comprises
2		a set of one or more parameter values; and where the step of analyzing one or more
3		parameters of the first confirmation information comprises comparing the values of
4		the one or more parameters in the first configuration information with corresponding
5		parameter values from the set of one or more parameter values from the second set of
6		configuration information.
1	3.	The method of Claim 1, where the second set of configuration information comprises
2		a set of one or more rules; and where the step of analyzing one or more parameters of
3		the first confirmation information comprises analyzing the one or more parameters of
4		the first configuration information with respect to the set of one or more rules.
1	4.	The method of Claim 1, where the one or more actions comprise one or more of
2		toggle actions, fix actions, user input actions, wizard actions, and lockdown actions;
3		and the one or more action mechanisms comprise one or more of toggle action

4		mechanisms, fix action mechanisms, user input action mechanisms, wiz	zard a	ction
5		mechanisms, and lockdown action mechanisms.		
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- 1 5. The method of Claim 1, further comprising the steps of:
- 2 receiving a second request from the user to perform one action of the one or more
- actions; and
- 4 performing the one action.
- The method of Claim 5, where the second request is one of one or more requests to perform actions, and where the method further comprises the step of performing the one or more corresponding actions based on the one or more requests to perform actions, where performing the one or more corresponding actions comprises constructing new configuration information based on the first configuration information and each action.
- 1 7. The method of Claim 6, further comprising the steps of:
- 2 checking the new configuration against an object model of acceptable configurations;
- if the changes are not acceptable, displaying a summary of problems.
- 1 8. The method of Claim 6, where the new configuration is the configuration for a
- 2 configurable system, the configurable system includes one or more configurable
- devices; and where the method further comprises the steps of:
- 4 receiving a third request to submit the changes;
- 5 checking the new configuration information against an object model of acceptable
- 6 configurations; and
- 7 if the changes are acceptable, configuring the configurable system.
- 1 9. The method of Claim 1, where the first configuration information comprises the
- 2 configuration for a configurable system; the configurable system includes one or
- more configurable devices; and the first configuration information is for each of the
- one or more configurable devices; and where the step of receiving the first
- 5 configuration information comprises obtaining the first configuration information for
- 6 each of the one or more configurable devices.

1	10.	The method of Claim 1, where the second set of configuration information is one of
2		one or more sets of second configuration information; and where the method further
3		comprises the step of selecting the second set of configuration information based on
4		the request from the user

- 1 11. The method of Claim 1, where the second set of configuration information is one or one or more sets of second configuration information; and where the method further comprises the step of selecting the second set of configuration information based on one or more sets of configuration information for a device to be configured.
- The method of Claim 5, where the one or more actions comprise one or more toggle actions, and the one or more action mechanisms comprise one or more toggle action mechanisms, and where the step of performing the action associated with a particular toggle action mechanism comprises changing a parameter value associated with the particular toggle action mechanism.
- 1 13. The method of Claim 5, where the one or more actions comprise one or more fix actions, and the one or more action mechanisms comprise one or more fix action mechanisms, and where the step of performing the action associated with the fix action mechanism comprises changing a parameter value associated with a particular fix action mechanism based on a corresponding parameter value in the second set of configuration information.
- 1 14. The method of Claim 5, where the one or more actions comprise one or more user
  2 input actions, and the one or more action mechanisms comprise one or more user
  3 input action mechanisms, and where the step of performing the action associated with
  4 a particular user input action mechanism comprises the steps of:
  5 obtaining user input for a parameter value associated with the particular user input
  6 action mechanism; and
  7 changing the parameter value associated with the particular user input action
  - changing the parameter value associated with the particular user input action mechanism based on the user input.
  - 15. The method of Claim 5, where the one or more actions comprise one or more wizard actions, and the one or more action mechanisms comprise one or more wizard action

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3		mechanisms, and where the step of performing the action associated with a particular
4		wizard action mechanism comprises the step of running a wizard associated with the
5		particular wizard action mechanism.
1	16.	A method for integrated audit and configuration comprising the steps of:
2		receiving a request from a user to analyze first configuration information with a
3		second set of configuration information;
4		obtaining the first configuration information;
5		receiving the first configuration information;
6		analyzing one or more parameters of the first configuration information with the
7		second set of configuration information to result in creating and storing
8		comparison information, where the second set of configuration information
9		comprises a set of one or more rules; and where the step of analyzing one or
10		more parameters of the first confirmation information comprises analyzing the
11		one or more parameters of the first configuration information with respect to
12		the set of one or more rules;
13		displaying the comparison information;
14		choosing one or more action mechanisms to provide to the user for each of the one or
15		more parameters based on the comparison information;
16		enabling the user to perform one or more actions associated with the one or more
17		action mechanisms;
18		receiving a second request from the user to perform one action of the one or more
19		actions; and
20		performing the one action, where performing the action comprises constructing new
21		configuration information based on the first configuration information and the
22		one action.
1	17.	A method providing an integrated security audit and security configuration for a
2		network device, comprising the computer-implemented steps of:
3		receiving a request from a user to analyze first security configuration information
4		with a second set of security configuration information;
5		receiving the first security configuration information:

O	analyzing one or more parameters of the first security configuration information with
7	the second set of security configuration information to result in creating and
8	storing comparison information, where the second set of security
9	configuration information comprises a set of one or more rules; and where the
10	step of analyzing one or more parameters of the first confirmation information
11	comprises analyzing the one or more parameters of the first security
12	configuration information with respect to the set of one or more rules;
13	displaying the comparison information;
14	choosing one or more action mechanisms to provide to the user for each of the one or
15	more parameters based on the comparison information;
16	enabling the user to perform one or more actions associated with the one or more
17	action mechanisms;
18	receiving a second request from the user to perform one action of the one or more
19	actions; and
20	performing the one action, where performing the action comprises constructing new
21	security configuration information based on the first security configuration
22	information and the one action.
1	18. A machine-readable medium carrying one or more sequences of instructions for
2	integrated audit and configuration, which instructions, when executed by one or more
3	processors, cause the one or more processors to carry out the steps of:
4	receiving a request from a user to analyze first configuration information with a
5	second set of configuration information;
6	receiving the first configuration information;
7	analyzing one or more parameters of the first configuration information with the
8	second set of configuration information to result in creating and storing
9	comparison information;
10	displaying the comparison information;
11	choosing one or more action mechanisms to provide to the user for each of the one or
12	more parameters based on the comparison information; and
13	enabling the user to perform one or more actions associated with the one or more
14	action mechanisms.

1	19.	An apparatus for integrated audit and configuration, comprising:
2		a network interface that is coupled to a data network for receiving one or more packet
3		flows therefrom;
4		a processor;
5		one or more stored sequences of instructions which, when executed by the processor,
6		cause the processor to carry out the steps of:
7		receiving a request from a user to analyze first configuration information with
8		a second set of configuration information;
9		receiving the first configuration information;
10		analyzing one or more parameters of the first configuration information with
11		the second set of configuration information to result in creating and
12		storing comparison information;
13		displaying the comparison information;
14		choosing one or more action mechanisms to provide to the user for each of the
15		one or more parameters based on the comparison information; and
16		enabling the user to perform one or more actions associated with the one or
17		more action mechanisms.
1	20.	An apparatus for integrated audit and configuration, comprising:
2		means for receiving a request from a user to analyze first configuration information
3		with a second set of configuration information;
4		means for receiving the first configuration information;
5		means for analyzing one or more parameters of the first configuration information
6		with the second set of configuration information to result in creating and
7		storing comparison information;
8		means for displaying the comparison information;
9		means for choosing one or more action mechanisms to provide to the user for each of
10		the one or more parameters based on the comparison information; and
11		means for enabling the user to perform one or more actions associated with the one or
12		more action mechanisms.

1	21.	A machine-readable medium carrying one of more sequences of instructions for
2		integrated audit and configuration, which instructions, when executed by one or more
3		processors, cause the one or more processors to carry out the steps of:
4		receiving a request from a user to analyze first configuration information with a
5		second set of configuration information;
6		obtaining the first configuration information;
7		receiving the first configuration information;
8		analyzing one or more parameters of the first configuration information with the
9	-	second set of configuration information to result in creating and storing
10		comparison information, where the second set of configuration information
11		comprises a set of one or more rules; and where the step of analyzing one or
12		more parameters of the first confirmation information comprises analyzing the
13		one or more parameters of the first configuration information with respect to
14		the set of one or more rules;
15	,	displaying the comparison information;
16		choosing one or more action mechanisms to provide to the user for each of the one or
17		more parameters based on the comparison information;
18		enabling the user to perform one or more actions associated with the one or more
19		action mechanisms;
20		receiving a second request from the user to perform one action of the one or more
21		actions; and
22		performing the one action, where performing the action comprises constructing new
23		configuration information based on the first configuration information and the
24		one action.
1	22.	A machine-readable medium carrying one or more sequences of instructions for
2		integrated security audit and security configuration, which instructions, when
3		executed by one or more processors, cause the one or more processors to carry out the
4		steps of:
5		receiving a request from a user to analyze first security configuration information
6		with a second set of security configuration information;
7		receiving the first security configuration information:

8	analyzing one or more parameters of the first security configuration information with
9	the second set of security configuration information to result in creating and
10	storing comparison information, where the second set of security
11	configuration information comprises a set of one or more rules; and where the
12	step of analyzing one or more parameters of the first confirmation information
13	comprises analyzing the one or more parameters of the first security
14	configuration information with respect to the set of one or more rules;
15	displaying the comparison information;
16	choosing one or more action mechanisms to provide to the user for each of the one or
17	more parameters based on the comparison information;
18	enabling the user to perform one or more actions associated with the one or more
19	action mechanisms;
20	receiving a second request from the user to perform one action of the one or more
21	actions; and
22	performing the one action, where performing the action comprises constructing new
23	security configuration information based on the first security configuration
24	information and the one action.